

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR
Express Mail No. EL 755725065 US
Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

ANT1m ATGGGTGATCACGC[GGAGCTCTAAAGGACTTCTGGCCGGGCGGTCGCCG[TCGCGTGC[CTCCAAGACCGGGTGC 80
ANT2m ATGACAGATGCCGCTGTCCTCGCCAAAGGACTTCCTGGCAGGTGGAGTGGCCGAGCCATCTCCAAGACGGCGGTAGC 80
ANT3m ATGACGGAA[AGGOCATCTCTCGCCAAAGACTT[GGCCGGAGGCATCGCCGCCATCTCCAAGACGGCGTGGC 80

ANT1m CCCATCGAGAGGGTCAA[CTGCTGCTGCAGGTCCAGCATGCCAGCAACAGATCA[GTG[AGAGAAGCAGTACAAGGG 160
ANT2m CCCATCGAGCGGGTCAAGCTGCTGCTGCAGGT[GAGCATGCCAGCAAGCAGATCACTGCAAGATAAGCA[ATACAAGGGCA 160
ANT3m [CGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCA[GCCAGCAAGCAGATCG[CGGAGAAGCAGTACAAGGGCA 160

ANT1m TCA[TTGA[GTGTGGT[GAGAAATCC[TAAGGAGCAGGG[CTCTCTCTGGAGGGTAACCTGGCAACGT[ATCCG[240
ANT2m T[ATAGACTGCGTGGTCCG[AT[CCCAAGGAGCAGGAAGTCTGTCTCTGGCGGGTAACCTGGCAA[GTCA[AGA 240
ANT3m TCGTGGACTGCA[GTCCGATCCCCAAGGAGCAGGGCGTCTGTCTCTGGAGGG[AACT[GCCAACGTCA[CGC 240

ANT1m TACTTCCCCACCCAAAGCTCTCAACTTCGCCCTCAAGGAAGTACAAGCAG[CTT[AGGGGGTGTGG[CGCA[AA 320
ANT2m TACTTCCCCACCCAAAGCTCT[AACTTCGCCCTCAAAGATAAAAGTACAAGCAGATCTCTGG[GGTGTGGACAAGAGAAC 320
ANT3m TACTTCCCCAAAGCTCAACTTCGCCCTCAAGGATAAGTACAAGCAGATCTCTGGGGGG[GTGGACAAGCACAC 320

ANT1m GCAGTTCTGGCGCTACTTG[GG[TAACCTGG[TCGGTGGGCCG[GGGGCCACCTCC[TTGCTTTGT[ATACCGC 400
ANT2m [CAGTT[GG[CTACTTGCGAGGAAATGGCA[GGGGCA[ATCCCTG[TTGTGTACCC[400
ANT3m GCAGTTCTGGAGG[ACTTGCGGG[ACCTGG[TCGG[GGTGA[GGGG[ACCTCC[GTGCT[GTGTACCCGC 400

ANT1m TGGAGTTGGTAGGACCAAG[GG[GG[GTGCTGATGTGGGAAGC---GCCGCCAGGG[AGTTCA[GG[CTGGGGACTG[477
ANT2m T[ATTTTGCCCG[ACCCG[CTAGCAGCTGATGTGGG[AAAGGTGGAG[GAAGGGAA[TCCTGAGGCTGGTACTGC 480
ANT3m TGGATTTGCCAGAACCCGCTGGCAG[GA[GGTGGAAAG[AGG[AGAGGCCAGTTCCGAGGCCCTGGAGACTGC 480

Fig. 1A

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR
Express Mail No. EL 755725065 US
Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660068.420D6

ANT1m ATCA[CAAGATCTCTAAGTCTGATGGCTAGGGGGCTATACCAGGGCTCAACGTCCTGTCAGGCATCATATCTA 557
ANT2m CTGGCTAAGATCTACAACTGATGGCTAGGGCTGTACCAAGGCTAACGTCCTGTCAGGGATATATCATCTA 560
ANT3m CTGGTGAAGATACCAAGTGGCATCGGGCCTGTACCAAGGGCTTCAGTGTCTCGTGCAGGGCATCATCTA 560

ANT1m TAGAGCTGCCTACTTCGGAGTCTATGATACTGCCAAGGGATGCTGCCTGACCCCAAGAACGTCACATTTGTGAGCT 637
ANT2m CCGAGCGCCCTACTTCGGTATCTATGACTGAAAGGGATGCTCCGGATCCCAAGAACACACATCGTCATAGCT 640
ANT3m CCGGGCGGCCTACTTCGGCTGATGATAACGCCAAGGGATGCTCCGGACCCCAAGAACACGCACATCGTGGTGAGCT 640

ANT1m GGATGATGGCCAGAGTGACGGCAGTGGAGGGCTGTCCTACCCCTTGACACTGTTCGTCGAGATGATGATG 717
ANT2m GGATGATCGACAGACTGTCACTGCTGTCGCGGCTGACTTCCTACATTGACACTGTTCGCCCGCATGATGATG 720
ANT3m GGATGATCGCGAGACCGTGACGGCGTGGCGCGCTGTCGCTACCCCTTGACACGGTGGCGCCGCATGATGATG 720

ANT1m CAGTCCGGCGAAAGGGCGATATATGTACACGGGACAGTTGACTGCTGGAGGAAGATTGAAAGACGAGGGAG 797
ANT2m CAGTGGCGCAAAGGAACGTGACATCATGTACACGGCACCGCTGACTGCTGGAGGAAGATTGCTGATGAAGGAGG 800
ANT3m CAGTCCGGCGCAAAGGAGCTGACATCATGTACACGGCACCGTGGACTGTTGGAGGAAGATCTCAGAGATGAGGGGG 800

ANT1m CAAGGCCTTCTCAAGGTGCTGGTCCAATGTCGTGAGAGGGATGGCGGTGCTTTGTATGGTGTGATGAGA 877
ANT2m CAAAGGCTTCAAGGGTGCATGGTCCAATGTCAGAGGGATGGCTGGCTTTGTGCTGCTTGTATGAGA 880
ANT3m CAAGGCCTTCTCAAGGGTGCATGGTCCAAGTGTGCGGGCATGGGGGGCGGTTGTGCTGGTGTGTAAGACGAGG 880

ANT1m TCAAAATAATGTCTAA 894
ANT2m TCAAGAAGTACACATAA 897
ANT3m TCAAGAACGTGATCTAA 897

Fig. 1B

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR
Express Mail No. EL 755725065 US
Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

HANT1p M[Q][H][A][S][I][K]DFLAG[AAA][S]KTA[PI]ERV[KL][L]QVQHASKQI[SA]EKQ 50
HANT2p MTDAAV[SF]AKDFLAGG[AAA]ISKTA[PI]ERV[KL][L]QVQHASKQI[TA]DKQ 50
HANT3p M[TE][Q][A][S]FAKDFLAGG[AAA]ISKTA[PI]ERV[KL][L]QVQHASKQI[AD]KQ 50

HANT1p YKGI[DC][V]V[RI]PK[EQG][F]SFWRGNL[AN]VIRYFPTQALNFAFKDKYKQ[FL] 100
HANT2p YKGI[DC][V]V[RI]PK[EQV][L]SFWRGNL[AN]VIRYFPTQALNFAFKDKYKQ[FL] 100
HANT3p YKGI[DC][V]RIPK[EQG]VLSFWRGNL[AN]VIRYFPTQALNFAFKDKYKQ[FL] 100

HANT1p GGV[DKH][T]QFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADV[G]RR-A 149
HANT2p GGV[DKH][T]QFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADV[G]AGA 150
HANT3p GGV[DKH]TQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADV[G]GT 150

HANT1p [D]REF[GLG][DQ][I][K]F[K]SDG[Q]RGLYQGFNVSVQGII[Y]RAAYFGVYDTAKG 199
HANT2p EREFRGLGDC[LM]K[I]YKSDG[Q]RGLYQGFNVSVQGII[Y]RAAYFG[Q]YDTAKG 200
HANT3p EREFRGLGDC[LM]K[I]KSDGIRGLYQGFNVSVQGII[Y]RAAYFGVYDTAKG 200

HANT1p MLPDPK[N][W][I]V[SW]MIAQ[VT]AVAGL[S]YPFD[TV]RRRMMQS[GRK]GADIM 249
HANT2p MLPDPK[N]THI[V][SW]MIAQ[VT]AVAGL[S]YPFD[TV]RRRMMQS[GRK]GADIM 250
HANT3p MLPDPK[N]THI[V]V[SW]MIAQ[VT]AVAGV[S]YPFD[TV]RRRMMQS[GRK]GADIM 250

HANT1p YTGTVD[CR]KIA[DEG][A]KAFFKG[AW]SNVLRG[MG]AFVLVLYDEIKK[V] 298
HANT2p YTGT[DC]WRKIA[DEGG]KAFFKG[AW]SNVLRG[MG]AFVLVLYDEIKK[V] 299
HANT3p YTGTVD[CR]KIA[DEGG]KAFFKG[AW]SNVLRG[MG]AFVLVLYDEIKK[V] 299

Fig. 2

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT L AND SCREENING ASSAYS THEREFOR
Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

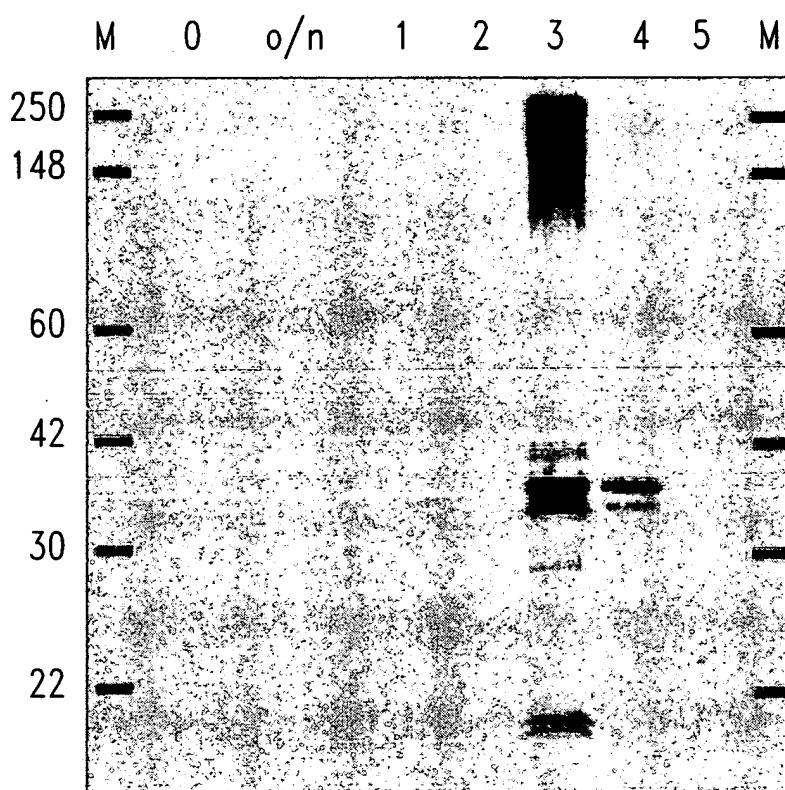


Fig. 3

Title: PRODUCTION OF ADENYLCYCLOLIC NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT L
AND SCREENING ASSAYS THEREFOR
Express Mail No. EL 755725065 US
Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

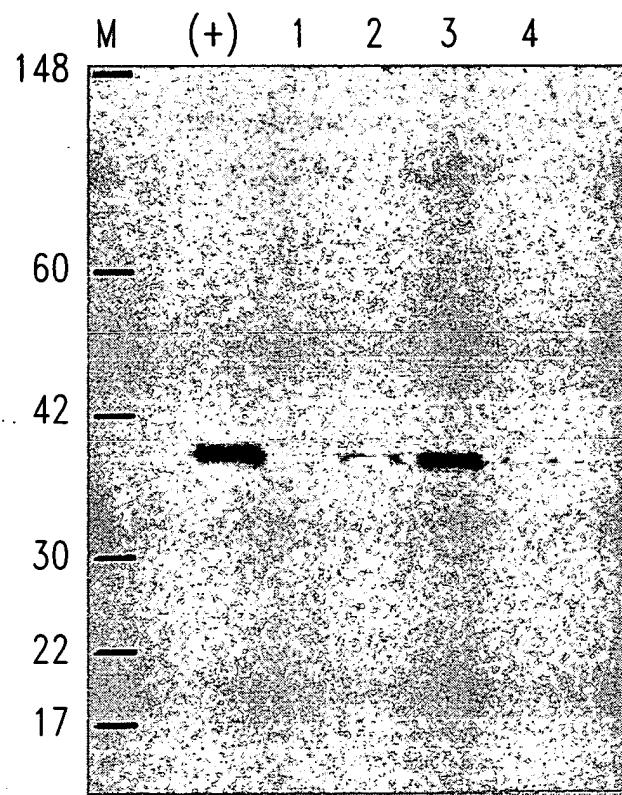


Fig. 4

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT L
Express Mail No. EL 755725065 US
Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6
AND SCREENING ASSAYS THEREFOR

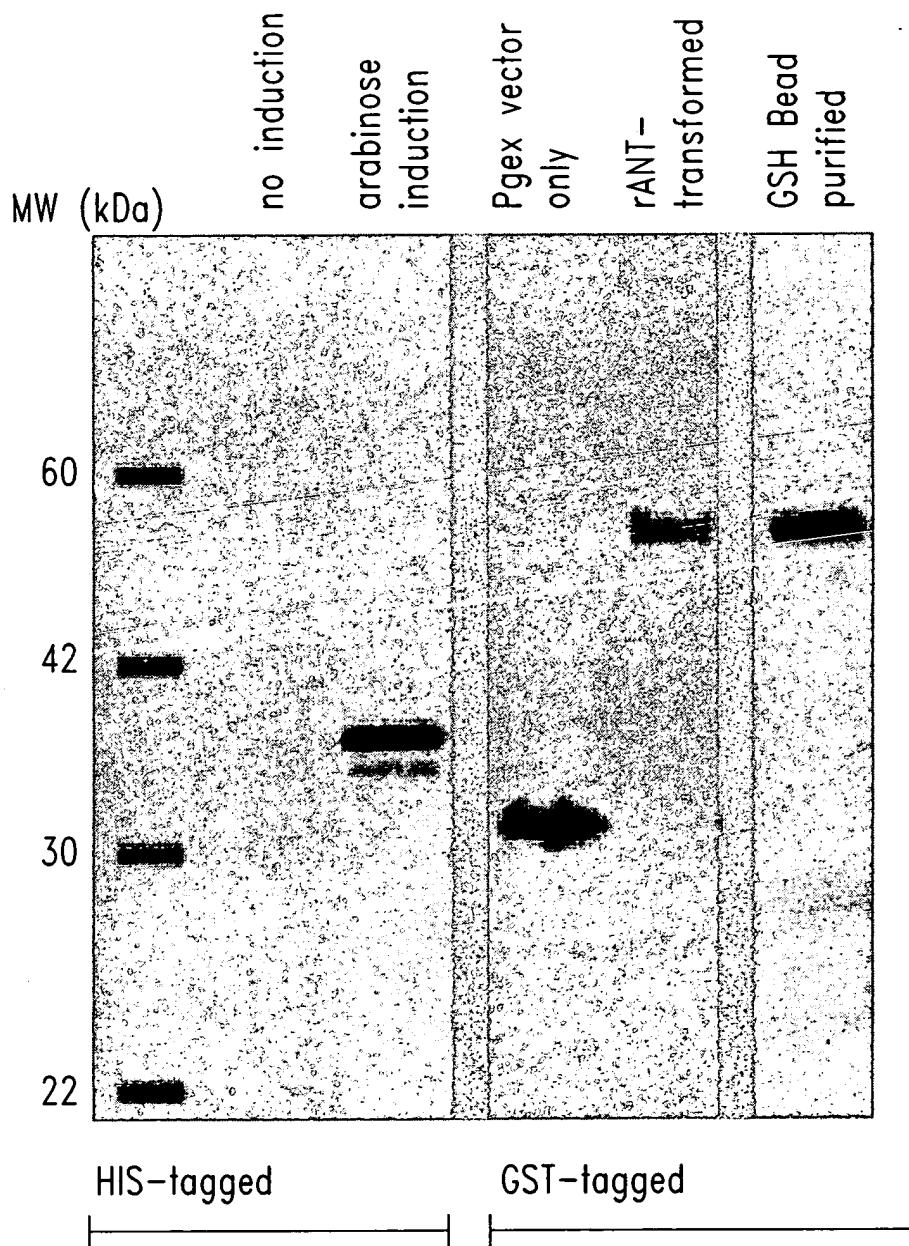


Fig. 5

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT L AND SCREENING ASSAYS THEREFOR
Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.42006

Transfected cell lines

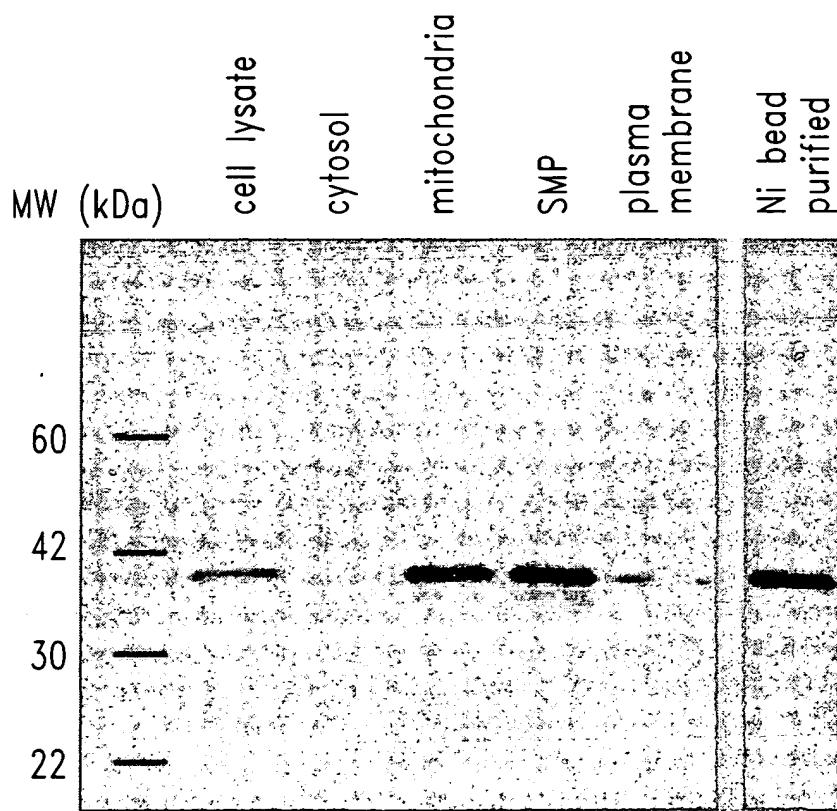


Fig. 6

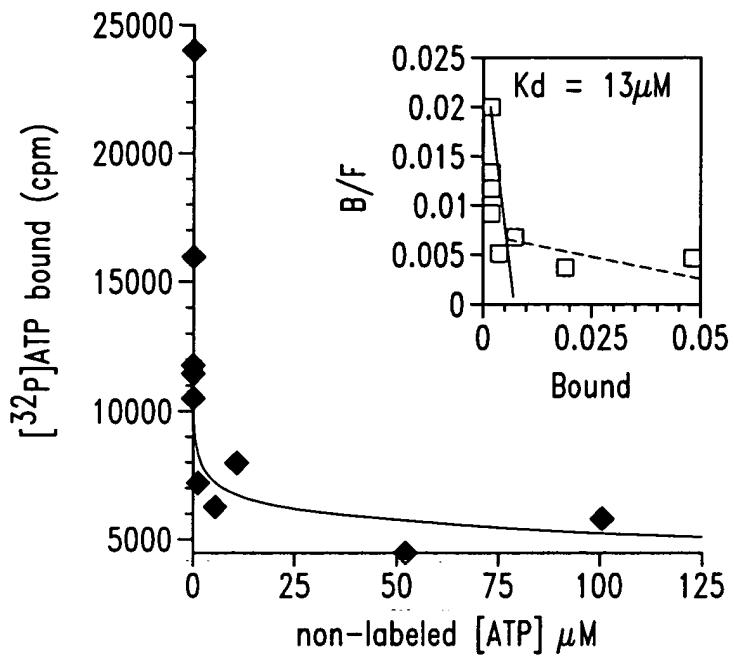


Fig. 7

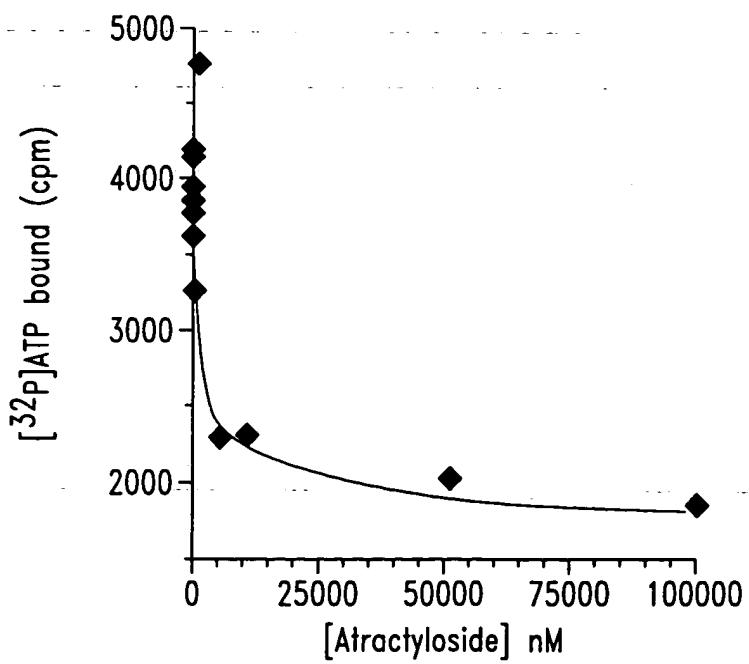


Fig. 8

Title: PRODUCTION OF ADENYLCYCLOLIC ACID, A CYCLOLIC NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT L
AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

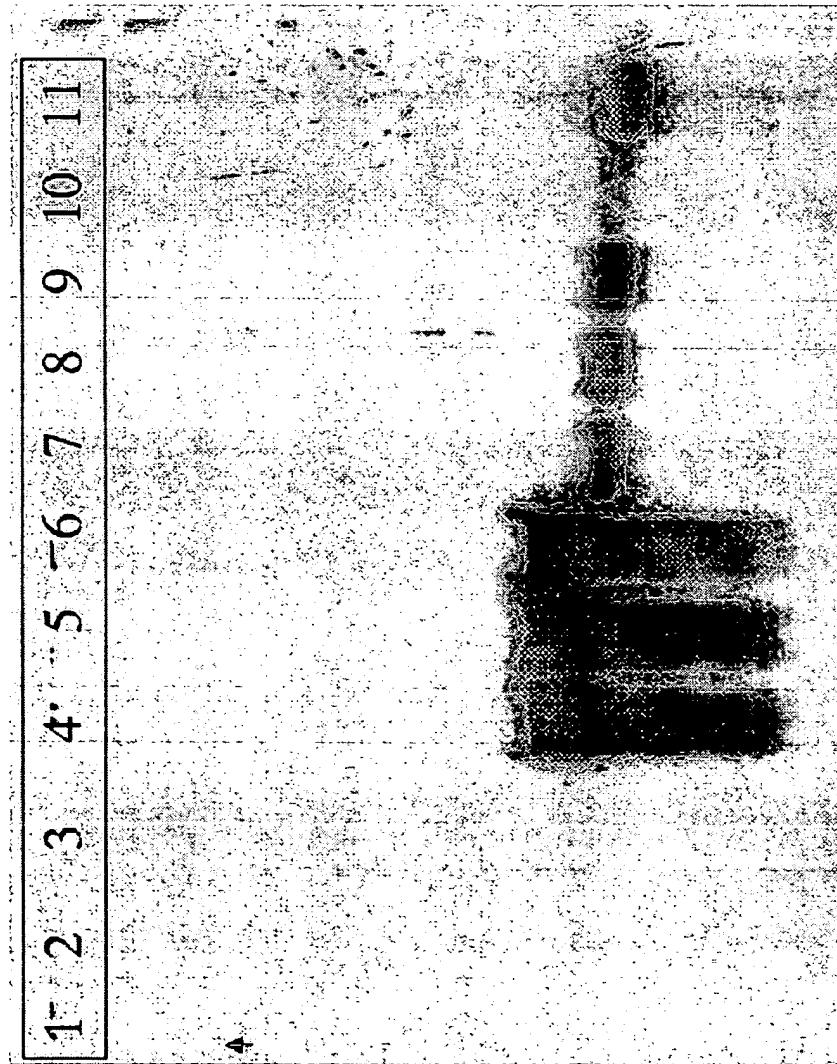


Fig. 10

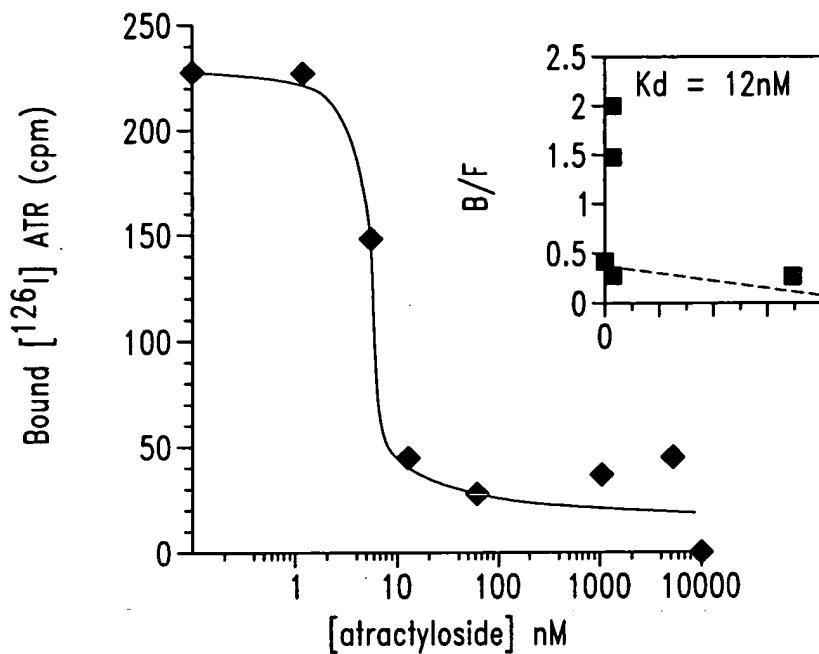


Fig. 9

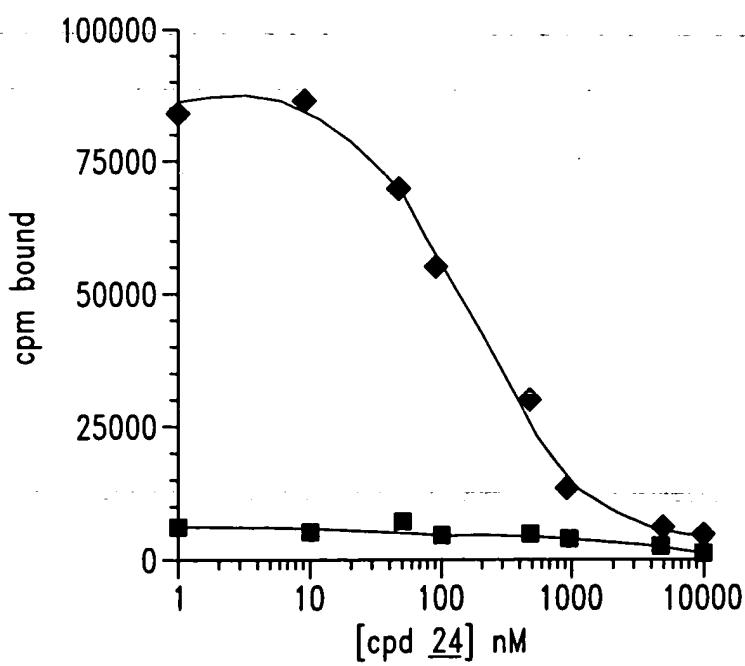


Fig. 11

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LEADS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

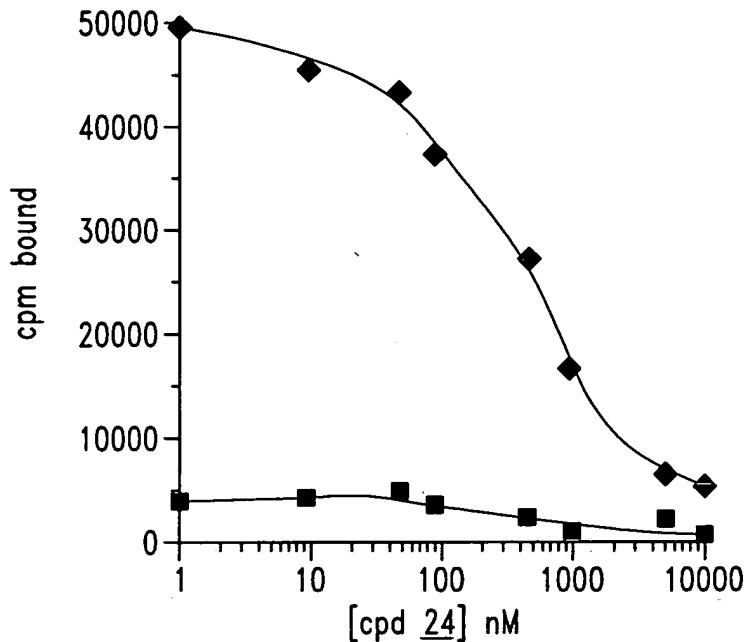


Fig. 12

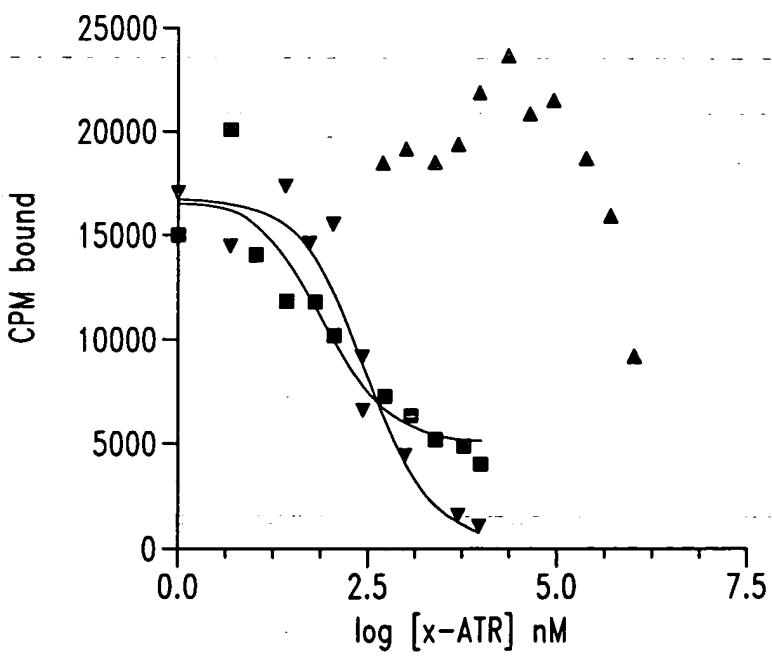


Fig. 13

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

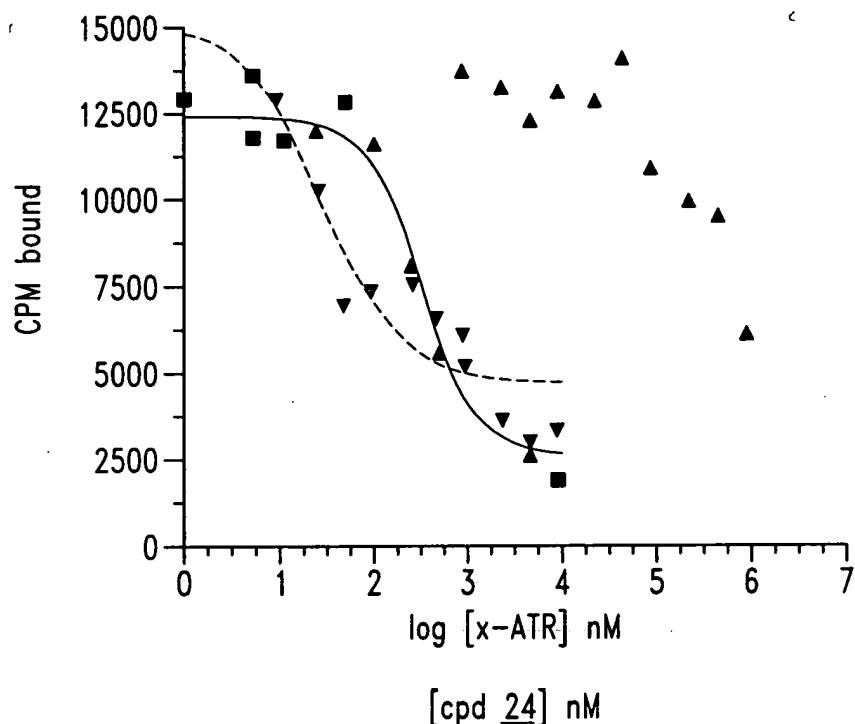


Fig. 14

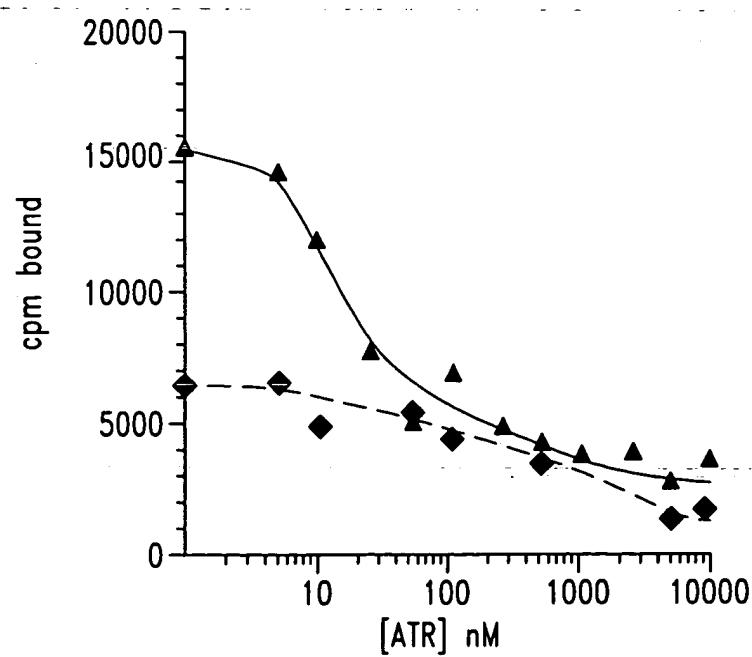


Fig. 15

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

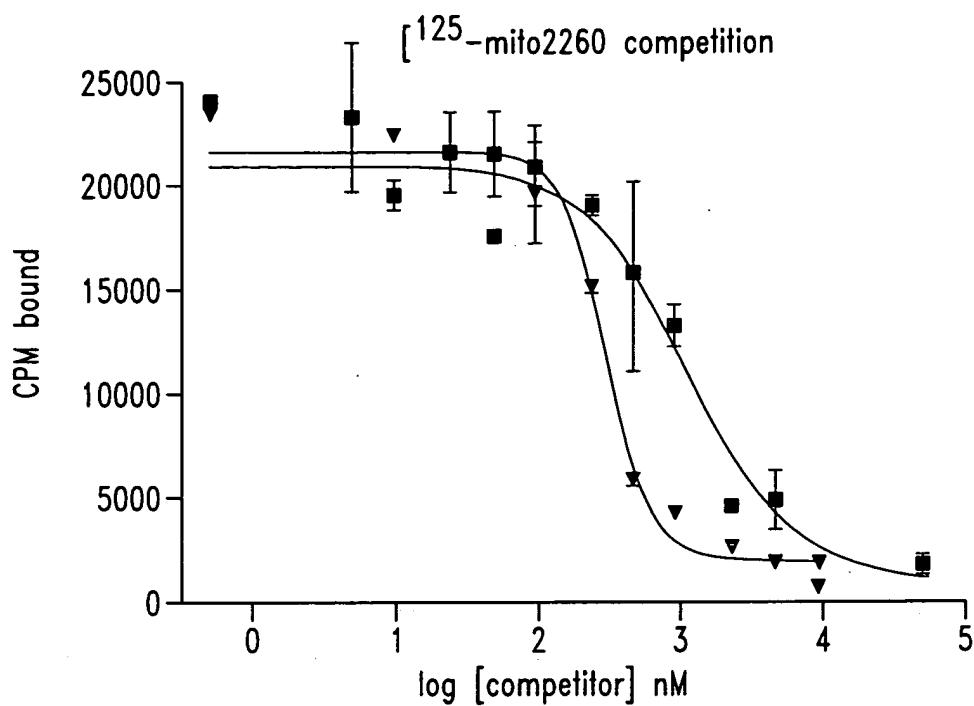


Fig. 16

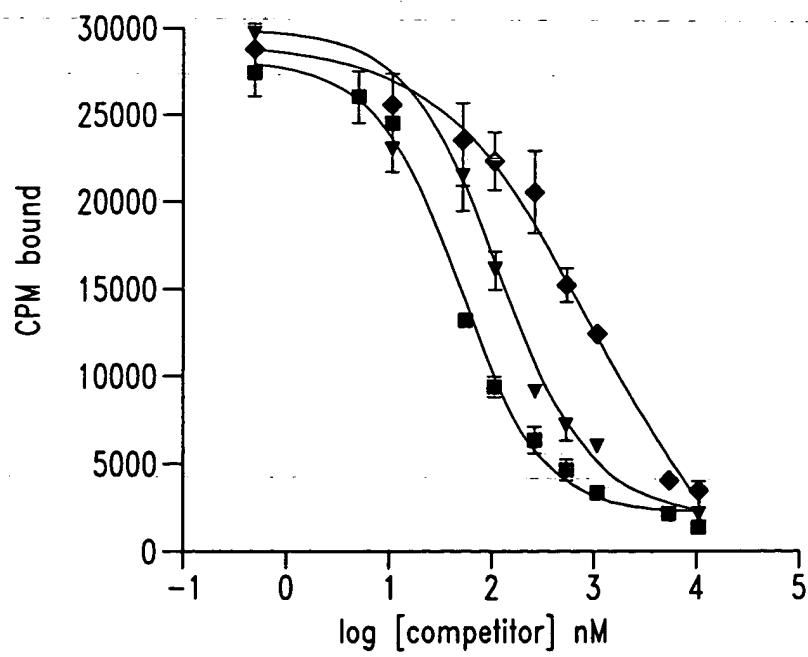


Fig. 17

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6

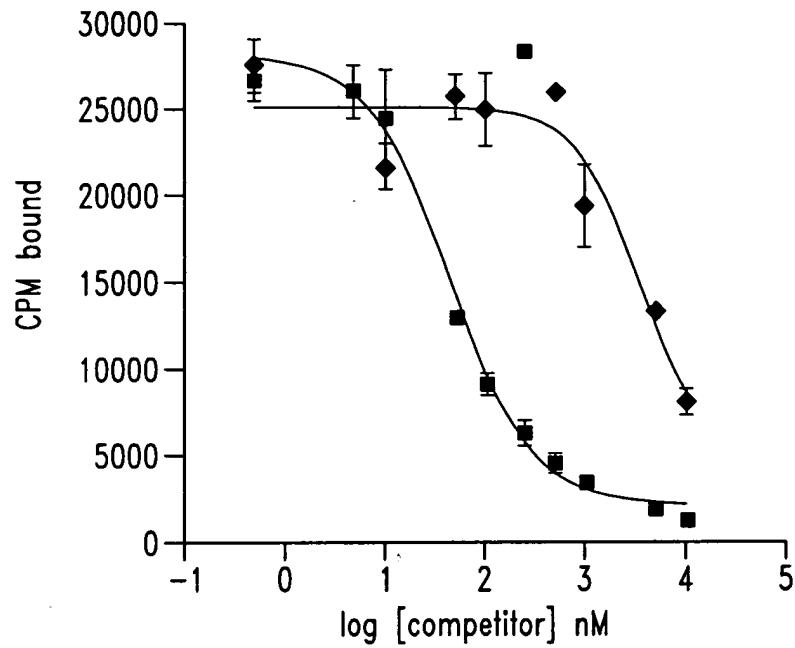


Fig. 18

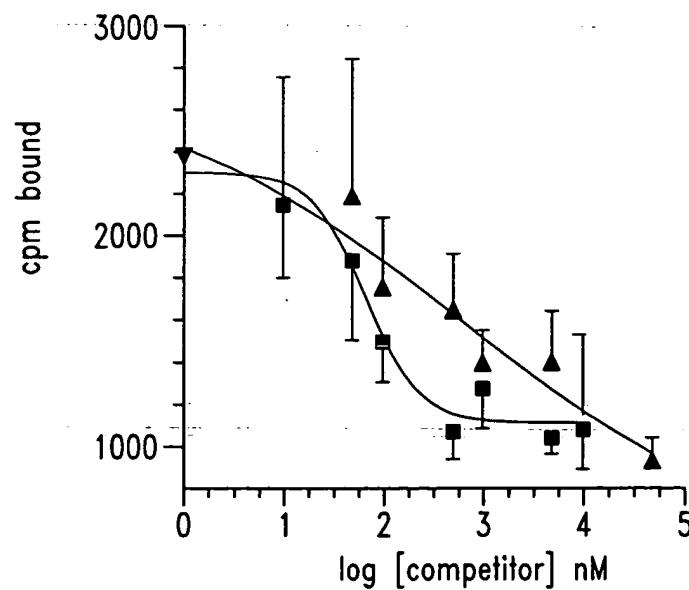


Fig. 19